



EVI-6 Significant Changes

April 19, 2022

Outline

EVI-5 to EVI-6 Significant Changes

Significant Changes from Draft to Final EVI-6 PEA

EVI-6 PEA Simplification

EVI-6 Acquisition Homepage

EVI-5 to EVI-6 Significant Changes

Requirements and Constraints Changes

- Only Class D Instrument and SmallSat (including CubeSats) proposals permitted.
- PI-Managed Mission Cost (PIMMC) capped at \$37M with a Science Enhancement Option (SEO) of \$5.3M in FY24 \$.
- CubeSats up to 12U in size permitted.
- Added an optional NOAA Operational Enhancement Opportunity (OEO).
- Simplified proposal requirements to reduce the workload on proposers.
- Added requirement to follow the NASA Earth Science Division (ESD) Open-Source Science (OSS) policy.
- Added requirements for a Project Protection Plan and for a Diversity and Inclusion Plan.

Note: We received five comments over 1-month comment period and 25 published Questions & Answers on the Draft PEA and 19 Q&A to the Community Announcement.

EVI-5 to EVI-6 Significant Changes

Evaluation Process Clarifications Changes

During the evaluation process, NASA will request written clarification on Potential Major Weaknesses (PMWs) associated with the *Intrinsic Science Merit of the Proposed Investigation (A Factors)*, the *Experiment Science Implementation Merit and Feasibility of the Proposed Investigation (B Factors)* and the *TMC Feasibility of the Proposed Investigation Implementation (C Factors)* criteria.

- Proposers will be allowed up to eight combined pages in total (with some restrictions) for clarification of the PMWs associated with the A Factors and the B Factors.
- Proposers will be allowed up to six pages in total (with some restrictions) for clarification of the PMWs associated with the C Factors.
- These clarifications may include text, tables, and figures to address the PMWs and to provide additional information.

Significant Changes from Draft to Final EVI-6 PEA

PEA Updates (1 of 2)

- All types of SmallSats (including CubeSats) are permitted to be proposed.
- Section 4.6.1.1 of the PEA clarifies that proposers may assume that the International Space Station (ISS) will be operational through 2030.
- NASA expects to launch any selected SmallSat investigation through the Venture-Class Acquisition of Dedicated and Rideshare (VADR) Launch Services or on other NASA-selected launch services as a rideshare.
- Removed requirement to include a Microsoft Project file for the schedule foldout.
- Clarified that investigators both participate in and support the Earth System Science Pathfinder (ESSP) Program Office (PO) with life cycle and Key Decision Point (KDP) reviews.
- Clarified the eligibility to propose for Arctic Slope Regional Corporation (ASRC).
- Clarified that OEO does not include changes or additions to hardware.

Significant Changes from Draft to Final EVI-6 PEA

PEA Updates (2 of 2)

- Clarified that the OSS policy applies only to science data products and **not** to spacecraft operations, to engineering data, or to information designated as ITAR or EAR.
- Added an example anonymized EVI contract to the EVI-6 Library.
- Rewrote Section 6.3.1 (*Award Administration and Funding of Investigations*) to update ESSP PO information.
- Clarified that the Student Collaboration (SC) is optional.

EVI-6 PEA Simplification

Overall

Proposal page limits reduced by at least 25 pages (EVI-6 PEA Requirement R-38).

Investigation Implementation

EVI-6 PEA Section 5.1.1, Requirements R-39 and R-40.

- **Systems Engineering:** Requirement for a description of overall systems engineering approach eliminated; only the description of systems engineering aspects unique to the mission, if any, is required (EVI-6 PEA Requirement R-39).
- **Schedule:** Two schedule foldouts do not count against the page limit instead of three; narrative for the schedule foldout is not required (EVI-6 PEA Requirement R-40).

EVI-6 PEA Simplification

Management

EVI-6 PEA Section 5.1.2, Requirements R-41 to R-45

- Requires only the management organization chart to be provided and the decision-making authority, and the teaming arrangement and responsibilities to be briefly discussed.
- Only investigation unique roles and responsibilities of the key management team are required. Eliminates explanation of traditional roles for key personnel.
- Eliminates naming Project Manager (PM) and other primary team members.
- Project risk and potential mitigation strategies in the form of a table only.
- Requires waivers to NASA Procedural Requirements (NPRs) only to be listed. Eliminates need for a description.

EVI-6 PEA Simplification

Cost and Cost Estimating Methodology

EVI-6 PEA Section 5.1.3, Requirements R-46 to R-47.

- Requires a Basis of Estimate table and a brief description of the methodologies and assumptions used to develop the proposed cost estimate.
- Only requires a brief discussion of cost reserves.
- Only requires a brief discussion of cost risk.
- Eliminates presenting a rationale for the costing methodology.
- Eliminates description/evaluation of any independent cost estimates performed outside the proposing organizations.
- Eliminates description of cost management tools.

EVI-6 PEA Simplification

Proposal Appendices

EVI-6 PEA Section 5.1.4, Requirements R-48 to R-55.

- Resumes – eliminates requirement for the resume of the PM.
- Eliminates appendix for Summary of Proposed Program Cooperative Contributions.
- International Participation – reduced to one page for a table and brief narrative.
- Eliminates appendix for Discussion of Limiting the Generation of Orbital Debris and End of Mission Spacecraft Disposal Requirements. However, selected investigations will have to fulfill these requirements after selection.
- Heritage – reduced page count from 30 to 15 pages. This reduction also applies to the Classified Appendix Regarding Heritage.

Scientific/Technical Evaluation Factors

Evaluation Criteria – Rewording reflects simplified requirements (EVI-6 PEA Section 6.1).

EVI-6 Acquisition Homepage

Proposers are encouraged to periodically check the EVI-6 Acquisition Homepage at <https://essp.larc.nasa.gov/EVI-6/index.html> . This site provides;

- Links to the PEA solicitation including the latest amendments (if any).
- Presentations for the Prospective Bidders Web Conference and the Preproposal Web Conference (when available),
- Pertinent announcements.
- The EVI-6 Library.
- EVI-6 Questions and Answers.
- A link to the SALMON AO Website
- A list of potential teaming partners.
- The EVI-6 Evaluation Plan (when available).

The EVI-6 Library provides additional regulations, policies, and background information related to the solicitation.